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REC'D 28 OCT 2003

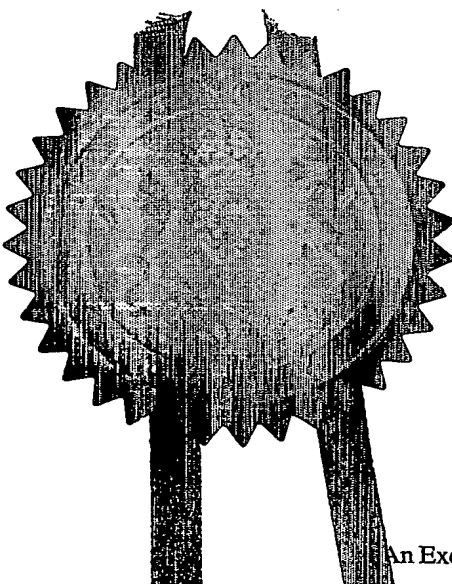
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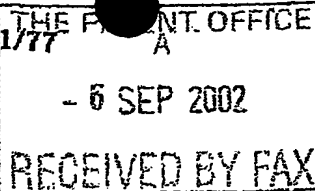
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Patents Form 1/77

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1/77

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The Patent Office

06SEP02 E746477-1 010002

P01/7700 0.00-0220748  
Cardiff Road  
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**1. Your reference**

syc.2471.uk.doc/ja.b

**2. Patent application number**

(The Patent Office will fill in this part)

0220748.8

6 SEP 2002

**3. Full name, address and postcode of the or of each applicant (underline all surnames)**

SAW-YOU.com Limited  
2 Clifton Street  
GLASGOW  
G3 7LA  
United Kingdom

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

UK

8255903001

**4. Title of the invention**

Improved communication using avatars

**5. Name of your agent (if you have one)**

"Address for service" in the United Kingdom  
to which all correspondence should be sent  
(including the postcode)

Kennedys Group  
Floor 5, Queens House  
29 St Vincent Place  
GLASGOW  
G1 2DT  
United Kingdom

Patents ADP number (if you know it)

8036758002

**6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number**

Country

Priority application number  
(if you know it)Date of filing  
(day / month / year)**7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application**

Number of earlier application

Date of filing  
(day / month / year)**8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:**

a) any applicant named in part 3 is not an inventor, or  
b) there is an inventor who is not named as an applicant, or

c) any named applicant is a corporate body.  
See note (d))

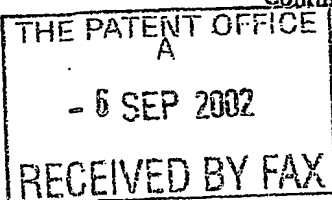
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Description 17 ✓

Claim(s)

Abstract

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Priority documents

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Statement of inventorship and right to grant of a patent (Patents Form 7/77)

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Request for substantive examination (Patents Form 10/77)

Any other documents  
(please specify)

11.

I/We request the grant of a patent on the basis of this application.

Signature

KENNEDYS GROUP

Date

6 September 2002

12. Name and daytime telephone number of person to contact in the United Kingdom

David Kennedy

tel: 0141 226 6826

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Patents Form 1/77

1 Improved communication using avatars

2

3 This invention relates to the general field of sending  
4 messages from one person to another and more specifically  
5 to the use of avatars for capturing attribute data of  
6 users and avatars to other users to facilitate rich but  
7 anonymous interaction.

8

9 In the field of messaging, text is commonly used to  
10 identify users of messaging systems in ways that describe  
11 their physical, geographical or social attributes. This  
12 allows other to select users for the receipt of messages.  
13 Such text offers descriptive information but maintains  
14 anonymity and privacy. Static graphical icons can also  
15 convey this information. The problem is that such an  
16 approach does not present users with the simple visual  
17 description that, for example, a photograph gives to make  
18 a go /no-go decision in terms of pursuing contact.

19

20 If a user wants to show other users what they look like,  
21 they can post a photograph. However, roughly 90% of  
22 dating site users on the Internet do not and will not  
23 post photographs of themselves for reasons of personal

1 privacy as they by definition lose some anonymity.  
2 Posting some other static image depicting some of their  
3 physical attributes is an option, for example using a  
4 drawing program or scan of a hand drawing. However this  
5 is not convenient for the user and it does not facilitate  
6 automated searching for or organising of the physical  
7 attributes, short of some complex pattern recognition  
8 software trawling through the images.  
9

10 Thus the user is constrained to either keep anonymity but  
11 not convey well what they look like or lose anonymity by  
12 showing what they look like with a photograph.  
13 Furthermore, a problem with static images, including  
14 photographs, is that they are not easy to update with  
15 real time information about the user.  
16

17 At present, Microsoft®'s instant messaging service  
18 depicts its Buddy List as a set of monochrome pawns with  
19 names below. This rather dull pawn representation does  
20 provide anonymity if accompanied by a user name that  
21 hides the identity of the associated user. However, the  
22 viewer still has to read the text to identify even named  
23 users. Items on the Buddy List indicate that another user  
24 is on-line, but fail to convey further information about  
25 the user. For example, what they look like, where they  
26 are or what they are doing. Worse still, the rendering  
27 of the Buddies on the list is performed without reference  
28 to the current status of the attributes of the user being  
29 represented. Even if the text is descriptive of such  
30 attributes it is rendered using information that was  
31 entered at the time of registration of the users'  
32 account.  
33

1 It is an object of the present invention to provide  
2 convenient capture of individual's attributes.

3  
4 It is a further object of the present invention to  
5 provide convenient selection of individual's attributes.

6  
7 It is a further object of the present invention to  
8 provide convenient use of individual's attributes for  
9 messaging.

10

11 According to a first aspect of the present invention,  
12 there is provided a method of capturing attributes of  
13 individuals comprising the steps:

14

- 15 - maintaining a database of attributes and identifiers  
16 of individuals;
- 17 - inputting attributes of an individual; and
- 18 - rendering an avatar, responsive to said attributes.

19

20 Preferably, the method further comprises the step of  
21 storing the input attributes in the database.

22

23 Preferably, the method further comprises the steps of  
24 determining the identifier of the individual and storing  
25 the identifier in the database.

26

27 According to a second aspect of the present invention,  
28 there is provided a method of messaging comprising the  
29 steps:

- 30 - maintaining a database of attributes and identifiers  
31 of individuals;
- 32 - selecting records in the database using input  
33 attributes;

- 1 - rendering an avatar using attributes stored in the
- 2 selected records;
- 3 - selecting a rendered avatar;
- 4 - identifying a recipient or allowed sender or
- 5 disallowed sender corresponding to the selected
- 6 rendered avatar and the message is sent to or
- 7 forwarded from or blocked from the identified
- 8 recipient or allowed sender or disallowed sender.

9

10 Typically, the input attributes are input by the steps of  
11 inputting attributes of an individual and rendering an  
12 avatar responsive to said attributes.

13

14 Optionally, the input attributes used for selecting  
15 records in the database are attributes relating to the  
16 location of a user.

17

18 Typically the recipient, allowed sender or disallowed  
19 sender are identified using the database.

20

21 Alternatively identifiers are stored associated with the  
22 rendered avatar and the recipient, allowed sender or  
23 disallowed sender are identified using stored  
24 identifiers.

25

26 According to a third aspect of the present invention,  
27 there is provided a method of selecting individuals  
28 comprising the steps:

- 29 - maintaining a database of attributes and identifiers
- 30 of individuals;
- 31 - selecting records in the database using input
- 32 attributes;

- 1 - rendering an avatar using attributes stored in the
- 2 selected records; and
- 3 - selecting a rendered avatar.

4  
5 Typically, the input attributes are input by the steps of  
6 inputting attributes of an individual and rendering an  
7 avatar, responsive to said attributes.

8  
9 Optionally, the input attributes used for selecting  
10 records in the database are attributes relating to the  
11 location of a user.

12  
13 According to a fourth aspect of the present invention,  
14 there is provided a system of capturing attributes of  
15 individuals comprising:

- 16  
17 - a database of attributes and identifiers of  
18 individuals;  
19 - a character engine means for inputting attributes of  
20 an individual and rendering an avatar, responsive to  
21 said attributes.

22  
23 Preferably, the character engine means is adapted to  
24 store the input attributes in the database.

25  
26 Preferably, the system further comprises a registration  
27 means for determining the identifier of the individual  
28 and storing the identifier in the database.

29  
30 According to a fifth aspect of the present invention,  
31 there is provided a system for messaging comprising:

- 32 - a storage means for storing attributes and  
33 identifiers of individuals;



1 - an avatar rendering and selection means for  
2 rendering an avatar using attributes stored in the  
3 storage means, selecting a rendered avatar; and  
4 - a messaging means for identifying a recipient or  
5 allowed sender or disallowed sender corresponding to  
6 the selected rendered avatar and sending to or  
7 forwarding from or blocking from the identified  
8 recipient or allowed sender or disallowed sender.

9  
10 Typically, the character engine means for inputting  
11 attributes of an individual and rendering an avatar  
12 responsive to said attributes is adapted to input  
13 attributes for selecting data in the storage means.

14  
15 Alternatively, the database of attributes and identifiers  
16 of individuals is adapted to retrieve records responsive  
17 to the location of a user.

18  
19 Typically the messaging means is adapted to identify the  
20 recipient, allowed sender or disallowed sender the  
21 storage means.

22  
23 Alternatively the avatar rendering and selection means is  
24 adapted to store identifiers associated with the rendered  
25 avatar and the messaging means is adapted to identify the  
26 recipient, allowed sender or disallowed sender are  
27 identified using the stored identifiers.

28  
29 According to a sixth aspect of the present invention,  
30 there is provided a system for of selecting individuals  
31 comprising:

32 - a storage means for storing attributes and  
33 identifiers of individuals;

1 - an avatar rendering and selecting means for  
2 rendering an avatar using attributes stored in the  
3 storage means and selecting a rendered avatar.  
4

5 Typically, a character engine means for inputting  
6 attributes of an individual and rendering an avatar  
7 responsive to said attributes is adapted to input  
8 attributes for selecting data in the storage means.  
9

10 Alternatively, the database of attributes and identifiers  
11 of individuals is adapted to retrieve records responsive  
12 to the location of a user.  
13

14 Preferably, attributes of an individual include details  
15 of the individual's physical appearance.  
16

17 Preferably, the details of the individual's physical  
18 appearance are selected from a list comprising their head  
19 shape, eye colour, eyelid state, mouth type, hairstyle,  
20 hair colour, skin colour, breast size, belly size and  
21 their clothing.  
22

23 Preferably, their clothing is selected from a list  
24 comprising: top style, top colour, bottom trousers,  
25 bottom colour, shoe type and shoe colour.  
26

27 Preferably, the attributes of an individual include  
28 details of the individual's behaviour.  
29

30 Preferably, the details of the individual's behaviour are  
31 selected from a list comprising: smoking preference,  
32 drink preference, musical preference, interests and  
33 clothing preferences.

1

2 Preferably, the attributes of an individual include  
3 details of an individual's favourite community.

4

5 Typically the community is a sporting or musical  
6 community.

7

8 Preferably, the inputting of attributes is performed  
9 using a graphical user interface that includes an output  
10 rendered avatar.

11

12 In order to provide a better understanding of the present  
13 invention, an embodiment will now be described, by way of  
14 example only, and with reference to the accompanying  
15 Figures in which:

16

17 Figure 1 illustrates a flow chart of the steps for  
18 registration including building an avatar,  
19 retrieving and displaying a selection of avatars and  
20 selecting an avatar for messaging in accordance with  
21 the present invention;

22

23 Figure 2 illustrates the components of the system in  
24 accordance with the present invention;

25

26 Figure 3 illustrates a graphical user interface for  
27 building an avatar and a selection of avatars  
28 rendered to display a range of attributes; and

29

30 Figure 4 illustrates a web services model.

31

32 The invention is a method and system that functions to  
33 capture attributes of individuals through a convenient

1 interface for both the maintenance of a database and  
2 selection of records in the database for messaging  
3 purposes.

4

5 With reference to Figure 1, a flowchart 10 of the method  
6 of capturing and using attributes of individuals is  
7 shown.

8

9 During registration, the system determines 12 the  
10 identifier of the individual, e.g. an email address or  
11 name and stores 14 the identifier in the database 16. The  
12 database is maintained to contain attributes and  
13 identifiers of individuals. During registration and at a  
14 later time, users input attributes 18 of an individual  
15 using a "character engine" graphical user interface that  
16 includes a displayed avatar, that is rendered 20  
17 responsive to the attributes. The input attributes are  
18 stored 22 in the database. Thus allows users to describe  
19 themselves by building the avatar. Instead of using a  
20 series of drop down menus or text inputs, users build up  
21 the image of an avatar, graphically choosing hairstyle,  
22 hair colour, face shape, etc.

23

24 Attributes of an individual include details of the  
25 individual's physical appearance such as their head  
26 shape, eye colour, eyelid state, mouth type, hairstyle,  
27 hair colour, skin colour, breast size, belly size and  
28 their clothing.

29

30 Their clothing is selected from top style, top colour,  
31 bottom trousers, bottom colour, shoe type and shoe  
32 colour.

33

1 The attributes may include details of the individual's  
2 behaviour such as smoking preference, drink preference,  
3 musical preference, interests and clothing preferences.  
4 Attributes may also include details of an individual's  
5 favourite community such as a sporting or musical  
6 community.

7  
8 The avatar may be animated (e.g. rendered using an  
9 animated GIF) or may perform a number of tasks such as  
10 speech or making sound. The avatar or database may co-  
11 operate with software agents that perform other automated  
12 tasks.

13  
14 The attributes is stored in the database, starting with a  
15 naked avatar:

16  
17 char\_head\_shape=oval  
18 char\_eye\_col=blue  
19 char\_eye\_lid=open  
20 char\_mouth=mouth6  
21 char\_hair\_style=s15  
22 char\_hair\_col=ginger  
23 char\_fag=no  
24 char\_specs=none  
25 char\_facial=none  
26 char\_makeup=lash  
27 char\_sex=female  
28 char\_col=black  
29 char\_tits=medium  
30 char\_belly=none  
31 char\_top=tshirt  
32 char\_top\_col=white  
33 char\_bot=skirt1

11

1 char\_bot\_col=blue  
2 char\_shoe=shoes  
3 char\_shoe\_col=white  
4 char\_drink=cock  
5  
6 This data represents a blank avatar that is displayed at  
7 the start of registration or when a user visits the site  
8 and isn't logged in. Note that some of the values are  
9 actually set at this point but are not rendered. For  
10 example 'char\_hair\_col = ginger' does not appear as  
11 ginger hair on the character because  
12 'char\_hair\_style=s15' (ie. No hair).  
13  
14 After changing the attributes, the final attributes are  
15 stored in the database, for example:  
16  
17 char\_head\_shape=round  
18 char\_eye\_col=brown  
19 char\_eye\_lid=open  
20 char\_mouth=mouth1  
21 char\_hair\_style=s13  
22 char\_hair\_col=black  
23 char\_fag=no  
24 char\_specs=none  
25 char\_facial=none  
26 char\_makeup=lash  
27 char\_sex=female  
28 char\_col=white  
29 char\_tits=none  
30 char\_belly=none  
31 char\_top=sweat  
32 char\_top\_col=yellow  
33 char\_bot=bare

1 char\_bot\_col=blue  
2 char\_shoe=bare  
3 char\_shoe\_col=blue  
4 char\_drink=none

5  
6 The user can create a personal avatar and download either  
7 the rendered image or the attributes to their computer or  
8 mobile phone for such purposes as personalised screen  
9 savers, phone screen logos, email signatures or instant  
10 messaging personalities.

11  
12 The user interface can be presented via web pages, I-  
13 mode, WAP, GPRS, MMS or SMS technologies and protocols  
14 using conventional programming techniques. In this  
15 embodiment, a Macromedia® Flash front end is used with an  
16 asp.net connection module to the database and a  
17 Microsoft® SQL Server database engine.

18  
19 The avatars or stored attributes can be migrated to  
20 personalise web pages or for use in computer games, or  
21 automated production of toys or other goods using the  
22 attributes to select components. The stored identity can  
23 be used for addressing delivery of the produced toys,  
24 etc.

25

26 Messaging is performed by

- 27 - maintaining a database 16 of attributes and
- 28 identifiers of individuals;
- 29 - selecting 28 records in the database using input
- 30 attributes;
- 31 - rendering 30 one or more avatars using attributes
- 32 stored in the selected records on the user's
- 33 display;

1 - selecting 36 by clicking on a rendered avatar;  
2 - the system automatically identifying a recipient 38  
3 or allowed sender or disallowed sender 42  
4 corresponding to the selected rendered avatar and  
5 then a message is sent 40 to or forwarded from or  
6 blocked from 44 the identified recipient or allowed  
7 sender or disallowed sender.

8  
9 The input attributes are input 18 graphically using a  
10 character engine that renders 20 an avatar responsive to  
11 the input attributes and stores 22 them in the database.

12  
13 The input attributes used for selecting records in the  
14 database may be attributes relating to the location of a  
15 user. For example if a user enters a bar, their phone  
16 sends a message to a system that selects records 28 in  
17 the database that match only that location.

18  
19 Typically the recipient, allowed sender or disallowed  
20 sender are identified using the database (shown by the  
21 dotted lines with arrowheads).

22  
23 Alternatively identifiers are stored 32 as a link or as  
24 an embedded e-mail address associated with the rendered  
25 avatar image and the recipient, allowed sender or  
26 disallowed sender are identified using these stored  
27 identifiers 34.

28  
29 The system can be used simply as a convenient method of  
30 selecting or more individuals by:

31 - maintaining a database 16 of attributes and  
32 identifiers of individuals;



- 1 - selecting 28 records in the database using input
- 2 attributes;
- 3 - rendering an avatar 30 using attributes stored in
- 4 the selected records; and
- 5 - selecting 36 a rendered avatar.

6

7 With reference to figure 2, a system of capturing  
8 attributes of individuals is shown.

9

10 The system includes a database of attributes 50 and  
11 identifiers of individuals implemented in Microsoft SQL  
12 Server and a registration module 52 with its input 54 and  
13 display 56 and a module 58 for determining the identifier  
14 of the individual and a module 60 implemented in asp.net  
15 for storing the identifier in the database.

16

17 The system further comprises a character engine 62  
18 implemented using Macromedia® Flash with an input 64 and  
19 a display 66 for inputting and a selection module 68 for  
20 selecting attributes of an individual and a rendering  
21 module 70 rendering an avatar, responsive to the  
22 attributes.

23

24 The character engine has a database access module 72 that  
25 stores the input attributes in the database.

26

27 The character engine 62 may be used to input attributes  
28 for selecting data in the storage means.

29

30 The system for messaging uses:

- 31 - a storage means 50 for storing attributes and
- 32 identifiers of individuals;

1 - an avatar rendering and selection engine 74 with a  
2 in input 76 and display 78 and a module 80 for  
3 rendering an avatar using attributes stored in the  
4 storage means, and a module 82 for selecting a  
5 rendered avatar;  
6 - a database access module 84;  
7 - a messaging engine 86 with a module 88 for  
8 identifying a recipient or allowed sender or  
9 disallowed sender corresponding to the selected  
10 rendered avatar and a module 92 for sending to or  
11 forwarding from or blocking from the identified  
12 recipient or allowed sender or disallowed sender.  
13 The messages are routed via a messaging network 94  
14  
15 With reference to Figure 3, upon registration, a  
16 graphical user interface 310 displays a naked avatar 311  
17 with a menu 312 for selecting attributes 313. Attribute  
18 selection button 314 can be clicked on by the user to  
19 change the selected attribute which also triggers the  
20 avatar rendering module to re-render and output the  
21 avatar with the selected attribute depicted. A save  
22 button 315 can be clicked on by the user to trigger the  
23 character engine to store the attribute in the database.  
24 Based on the physical appearance users now build up their  
25 avatar.  
26  
27 A selection of such avatar heads 316 are shown. Further  
28 physical appearance is differentiated by top colour and  
29 type of drink. Male figures 317 can be described down to  
30 belly size reflecting physical build. Female avatars 318  
31 can be enhanced with chest size, makeup, top colour and  
32 drink. Facial expressions 319 can be created with the use  
33 of eyelids.

1  
2 With reference to Figure 4, the Web services link 410  
3 will allow 3rd party services 412 to access and retrieve  
4 locally created avatars (created and maintained by  
5 systems 413 and methods in accordance with the present  
6 invention by users at terminals 415) and/or attributes  
7 from the database 414 based on a unique identifier such  
8 as e-mail address or phone number. This allows the 3rd  
9 party to incorporate the personalised avatar and/or  
10 attributes into their service or database 416 for the  
11 benefit of their users on terminals 417. For example,  
12 this service could be a messaging service such as  
13 Hotmail®, MSN Instant Messenger®, or an ISP wishing to  
14 personalise their pages etc. Web Services is just one  
15 method of providing the avatars. The avatars may also be  
16 provided through agreement & database sharing, for  
17 example through a telecom interface 418.  
18  
19 Although the embodiments of the invention described with  
20 reference to the drawings comprise computer apparatus and  
21 processes performed in computer apparatus, the invention  
22 also extends to computer programs, particularly computer  
23 programs on or in a carrier, adapted for putting the  
24 invention into practice. The program may be in the form  
25 of source code, object code, a code of intermediate  
26 source and object code such as in partially compiled form  
27 suitable for use in the implementation of the processes  
28 according to the invention. The carrier may be any  
29 entity or device capable of carrying the program.  
30  
31 For example, the carrier may comprise a storage medium,  
32 such as ROM, for example a CD ROM or a semiconductor ROM,  
33 or a magnetic recording medium, for example, floppy disc

1 or hard disc. Further, the carrier may be a  
2 transmissible carrier such as an electrical or optical  
3 signal which may be conveyed via electrical or optical  
4 cable or by radio or other means.

5

6 When the program is embodied in a signal which may be  
7 conveyed directly by a cable or other device or means,  
8 the carrier may be constituted by such cable or other  
9 device or means.

10

11 Alternatively, the carrier may be an integrated circuit  
12 in which the program is embedded, the integrated circuit  
13 being adapted for performing, or for use in the  
14 performance of, the relevant processes.

15

16 Further modifications and improvements may be added  
17 without departing from the scope of the invention herein  
18 described.

1/4

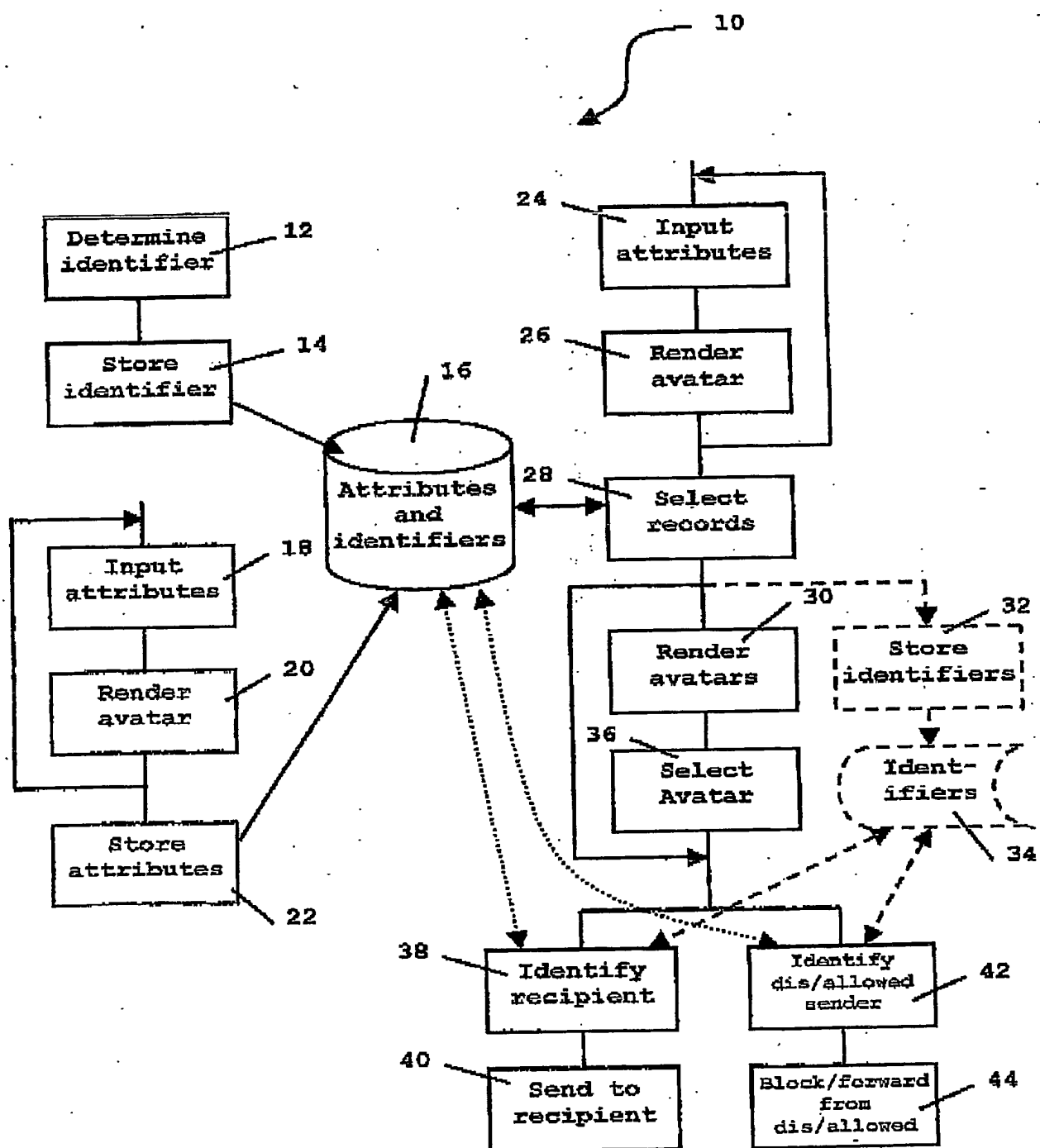
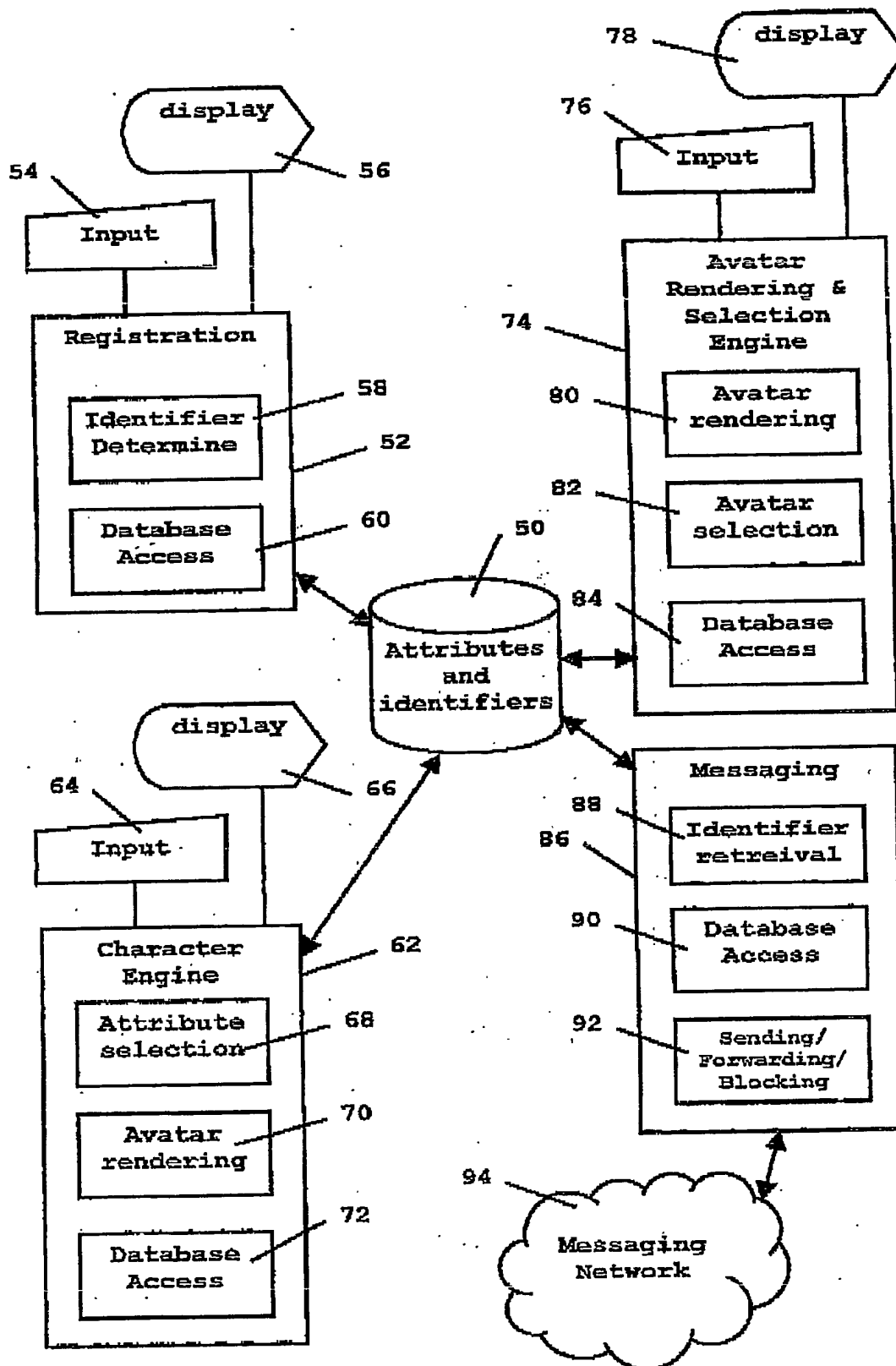


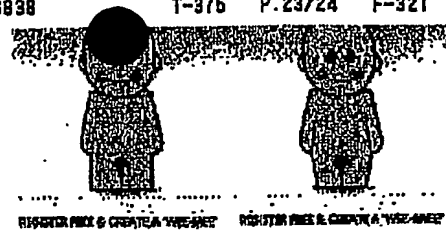
Fig. 1

2/4

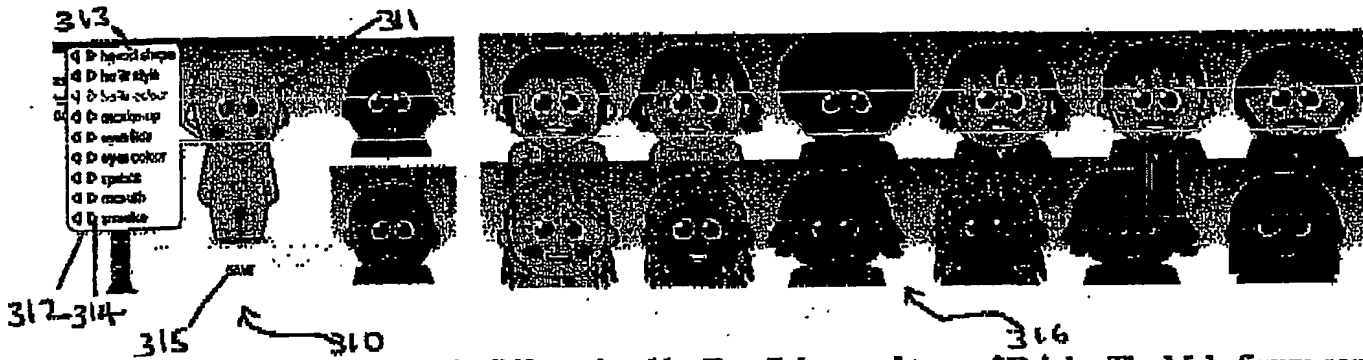
**Fig. 2**

3/4

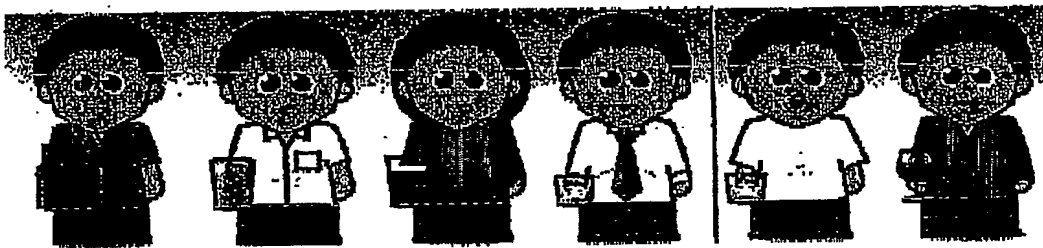
When registration user begins with naked Male/Female WeeMee.



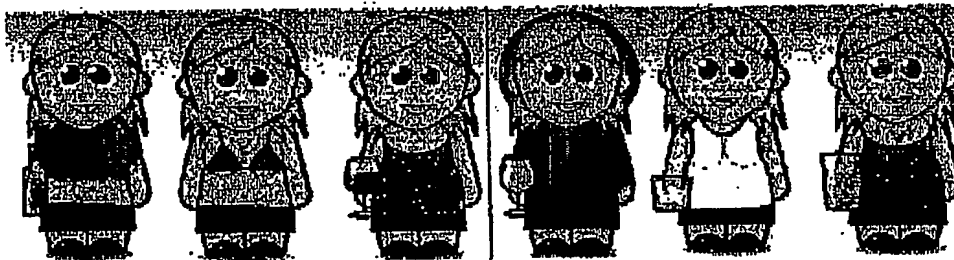
Based on physical appearance users now build up their character from Head Shape, Eye Colour, Ethnicity. This is further enhanced by Hair Style, Hair Colour, Glasses, Smoker, non-smoker.



Further physical appearance is differentiated by Top Colour and type of Drink. The Male figure can be described down to "belly" size reflecting to physical build.



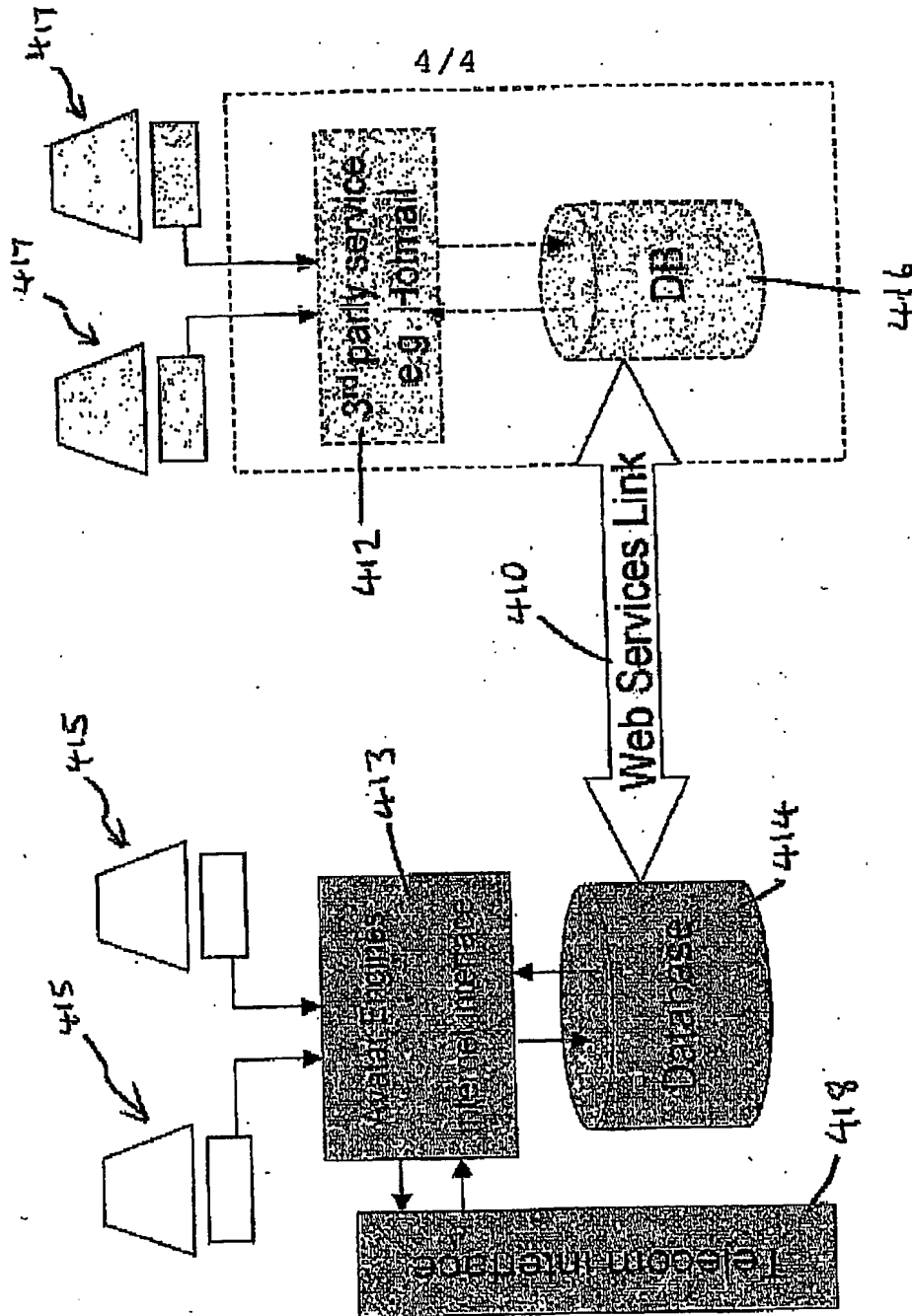
Female figure can be enhanced with Chest size, Make up, Top Colour and Drink type.



Facial expressions can be created with the use of eyelids.



Fig 3.

**Fig. 4**